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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,017	03/23/2004	David Feygin	115-001US	4800
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DEMONT & BREYER, LLC 100 COMMONS WAY, Ste. 250			MUSSELMAN, TIMOTHY A	
HOLMDEL, NJ 07733			ART UNIT	PAPER NUMBER
			3714	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/807,017	FEYGIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy Musselman	3714				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT .136(a). In no event, however, may a reply b d will apply and will expire SIX (6) MONTHS to tte, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 October 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-34 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the sheet of the sh	ccepted or b) objected to by the drawing(s) be held in abeyance. ction is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic ority documents have been rece au (PCT Rule 17.2(a)).	eation No eived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/07.	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date				

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DETAILED ACTION

Status of Claims

In response to the communication of 10/29/2007, claims 1-34 are pending in this application. Claims 35-38 have been cancelled.

Allowable subject matter

The indicated allowability of claims 2-3, 7, 9, 10-14, 20, 28-29, and 32-33 in the previous office action is withdrawn in light of the newfound references to Kreitenburg (US 4,380,439) and Cunningham (US 7,202,851). The office regrets the delay in the discovery of these references.

Claim Rejections - 35 USC § 103

The following is a quotation of the relevant portion of 35 U.S.C. 103 that forms the basis for the rejections made in this section of the office action;

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Claims 1, 3-17, 21-23, 26-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreitenburg (US 4,380,439) in view of Cunningham et al. (US 7,202,851).

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Regarding claims 1, 4, 12, 14, 21-22, and 27, Kreitenburg discloses a palpation training module comprising a pseudo vein disposed beneath a pseudo skin through an opening in a housing structure. See col. 2: 11-20 and fig. 3. Note that the natural opposing force to the applied pressure is constant and it opposes the downward motion of the user (opposite and equal, since the user presumably does not push the entire device into motion). There is no teaching in Kreitenburg wherein the generated force is magnetic. However, Cunningham discloses a palpation module for vascular access (among other uses) that discloses wherein the generated force can be magnetic in nature. See col. 10: 1-5 and also col. 18: 18-28. It would have been obvious to one of ordinary skill in the art at the time of the invention to include magnetic feedback in the system of Kreitenburg, because the use of magnetically controlled haptic feedback is representative of the current state of the art in haptic interface simulations.

Regarding claims 3, 6-7, 17, 28, and 30, Kreitenburg discloses all of the features described above with respect to claim 1, and further discloses wherein the stiffness (rigidity) of the vein is adjusted by the infusion of fluid. See col. 2: 20-28.

Regarding claims 5, Kreitenburg does not teach wherein the vein yields to applied pressure. However, Cunningham teaches of the concept of palpation target models yielding to applied pressure. See col. 39: 60 - col. 40: 29. It would have been obvious to one of ordinary skill in the art at the time of the invention to include this interaction in the system of Krietenburg, because the interactive haptic feedback is representative of the current state of the art in haptic interface devices (as taught by Cunningham).

Regarding claims 8, 23, and 34, Kreitenburg further discloses wherein the pseudo vein can be felt, but is not visually discernable beneath the skin. See col. 2: 12-28.

Regarding claims 9-11, 13, and 31, Kreitenburg fails to teach wherein the psuedo vein can be felt or not felt as desired, dependant upon applied pressure. However, Cunningham teaches of this identical

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concept with regard to palpation simulations. See col. 39: 60 - col. 40: 29. It would have been obvious to one of ordinary skill in the art at the time of the invention to include this interaction in the system of Krietenburg, because such interactive haptic feedback is representative of the current state of the art in haptic interface devices (as taught by Cunningham). Note that the feeling or not of the organ would be a variable counter pressure as per claim 13 that is constant during application.

Regarding claim 15, the counter force described above with respect to claim 12 would be slightly greater than the force of gravity at a minimum magnitude, because the vein stays in place (i.e. does not climb or fall on it's own).

Regarding claim 16 and 29, Kreitenburg fails to teach of magnetic fields being generated by a coil and a permanent magnet. However, Cunningham discloses this in col. 18: 18-28, and its use would have been obvious for the identical reasons set forth with respect to claim 12 above.

Regarding claim 26, Kreitenburg fails to teach of an electronics/communication interface attached to the palpation module coupling the module to a data processing system. However, Cunningham discloses this feature in col. 4: 5-29. It would have been obvious to one of ordinary skill in the art at the time of the invention to include this data interfacing in the system of Krietenburg, because the interactive haptic devices are representative of the current state of the art in haptic interface devices (as taught by Cunningham).

Regarding claims 32 and 33, Kreitenburg fails to teach of measuring the position of the vein by disposing the vein on a movable first plate, and measuring the distance between said first plate and a second plate as the vein (and hence the first plate) is moved. However, this measurement concept is disclosed by Cunningham in col. 19: 1-17, and the application to the vein in Kreitenberg would have been obvious to one of ordinary skill in the art at the time of the invention because the interactive haptic

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devices and the measurement techniques as taught by Cunningham are representative of the current state of the art in haptic interface devices.

Claims 2 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreitenburg (US 4,380,439) in view of Leight et al. (US 6,575,757).

Regarding claims 2 and 20, Kreitenberg discloses a palpation module as described above, but fails to teach wherein the module measures a change in position of said pseudo vein. However, the measuring of position pertaining to simulated antomical items within palpation modules is old and well known in the art. For example, Leight discloses this concept in a medical palpation module. See col. 5: 1-5. It would have been obvious to one of ordinary skill in the art at the time of the invention to include this position change measurement concept with regard to applied pressure in the system of Krietenberg, in order to expand the system to allow for feedback.

Claims 18-19 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreitenburg (US 4,380,439) in view of Cunningham et al. (US 7,202,851) and in further view of Cunningham et al. (US 6,470,302).

Regarding claims 18 – 19 and 24, Kreitenberg/Cunningham '851 disclose wherein the vein yields to downward pressure as described above with regard to claim 5. However there is no teaching wherein this indicates that an occlusion procedure has been performed. However, Cunningham '302 discloses a vascular access simulation in which measurable pressure on a skin stretch module indicates an occlusion procedure. See col. 11: 33-54. It would have been obvious to one of ordinary skill in the art at the time of the invention to include the interaction features representative of the current state of the art as taught by both Cunningham references in the system of Kreitenberg, because it would merely be the updating of kreitenberg to the current state of the art.

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Regarding claim 25, Kreitenberg/Cunningham '851 fail to teach of a catheter/needle module for insertion into the

device. This, however, is a feature of the Cunningham '302 reference. See col. 7: 21-35. This combination would

have been obvious to one of ordinary skill in the art. Since the Cunningham '302 reference comprises both the

catheter module and a palpation module (as described above with reference to claim 24), such an addition to

Kreitenberg/Cunningham '851 would have been a combination already known to exist in the art.

Response to Arguments

Applicant's arguments dated 10/29/2007 have been fully considered, but are moot in view of the new

grounds of rejection. This action is made non-final.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed

to Timothy Musselman whose telephone number is (571)272-1814. The examiner can normally be reached on Mon-

Thu 6:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto

can be reached on (571)272-6996. The fax phone number for the organization where this application or proceeding

is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Supervisory Primery Examine

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